

Amendments to the Claims:

Claim 1 (Cancelled without prejudice).

Claim 2 (Cancelled without prejudice).

Claim 3 (Re-presented-formerly dependent claim 3). A method of synthesizing at least part of a copy protection signal in a video signal wherein the video signal includes video lines having horizontal blanking intervals including horizontal sync, front porch and back porch areas of respective normal levels, and a normal color burst area, comprising:

lowering the level of a selected portion or portions of the end of a video line and or of the horizontal blanking interval to a value lower than said respective normal level of the selected portion or portions;

inserting a color burst signal of incorrect phase or frequency in a second portion of the horizontal blanking interval; and

wherein the second portion is spatially arranged in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder or television set to sample or sense the incorrect color burst signal thereby generating color distortion in the recorder or television set;

wherein the incorrect color burst signal is added to at least a portion of the horizontal sync signal and/or to at least a portion of the back porch area so as to enable the sampling or sensing of the incorrect color burst signal; and or

~~The method of claim 2~~ wherein the incorrect color burst signal is added to at least a portion of a horizontal sync pulse, and the selected portion which is lowered in level is in at least a portion of the front porch area or in a portion of the active video toward the end of a video line.

Claim 4 (Cancelled without prejudice).

Claim 5 (Cancelled without prejudice).

Claim 6 (Re-presented-formerly dependent claim 6). A method of synthesizing at least part of a copy protection signal in a video signal wherein the video signal includes video lines having horizontal blanking intervals including horizontal sync, front porch and back porch areas of respective normal levels, and a normal color burst area, comprising:

lowering the level of a selected portion or portions of the end of a video line and or of the horizontal blanking interval to a value lower than said respective normal level of the selected portion or portions;

inserting a color burst signal of incorrect phase or frequency in a second portion of the horizontal blanking interval;

wherein the second portion is spatially arranged in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder or television set to sample or sense the incorrect color burst signal thereby generating color distortion in the recorder or television set;

wherein the incorrect color burst signal is added to at least a portion of the horizontal sync signal and/or to at least a portion of the back porch area so as to enable the sampling or sensing of the incorrect color burst signal; and

~~The method of claim 2~~ further including;

superimposing a positive pulse on the front porch area prior to the horizontal sync signal;

wherein the selected signal which is lowered in level is a portion of the front porch area;

and

wherein the lowered front porch portion and the positive pulse form a pseudo sync/automatic gain control (AGC) pulse pair.

Claim 7 (Re-presented-formerly dependent claim 7). A method of synthesizing at least part of a copy protection signal in a video signal wherein the video signal includes video lines having horizontal blanking intervals including horizontal sync, front porch and back porch areas of respective normal levels, and a normal color burst area, comprising:

lowering the level of a selected portion or portions of the end of a video line and or of the horizontal blanking interval to a value lower than said respective normal level of the selected portion or portions;

inserting a color burst signal of incorrect phase or frequency in a second portion of the horizontal blanking interval;

wherein the second portion is spatially arranged in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder

or television set to sample or sense the incorrect color burst signal thereby generating color distortion in the recorder or television set;

wherein the incorrect color burst signal is added to at least a portion of the horizontal sync signal and/or to at least a portion of the back porch area so as to enable the sampling or sensing of the incorrect color burst signal; and

~~The method of claim 2~~ wherein the selected portion which is lowered in level comprises the end of a video line and or at least a part of the front porch area.

Claim 8 (Re-presented-formerly dependent claim 8). A method of synthesizing at least part of a copy protection signal in a video signal wherein the video signal includes video lines having horizontal blanking intervals including horizontal sync, front porch and back porch areas of respective normal levels, and a normal color burst area, comprising:

lowering the level of a selected portion or portions of the end of a video line and or of the horizontal blanking interval to a value lower than said respective normal level of the selected portion or portions;

inserting a color burst signal of incorrect phase or frequency in a second portion of the horizontal blanking interval;

wherein the second portion is spatially arranged in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder or television set to sample or sense the incorrect color burst signal thereby generating color distortion in the recorder or television set;

wherein the incorrect color burst signal is added to at least a portion of the horizontal sync signal and/or to at least a portion of the back porch area so as to enable the sampling or sensing of the incorrect color burst signal; and

The method of claim 2 further including;

generating an average picture level (APL) signal indicative of the instant average picture level; and

varying the amount that the selected portion is lowered in response to the APL signal.

Claim 9 (Previously amended). The method of claim 8 wherein the level of a portion of the front porch area or of the end of a video line is varied in response to the APL signal.

Claim 10 (Previously amended). The method of claim 8 wherein the level of a post pseudo sync signal added to a back porch area is varied in response to the APL signal.

Claim 11 (Cancelled without prejudice).

Claim 12 (Cancelled without prejudice).

Claim 13 (Cancelled without prejudice).

Claim 14 (Cancelled without prejudice).

Claim 15 (Cancelled without prejudice).

Claim 16 Re-presented-formerly dependent claim 16). A method of synthesizing at least a part of a copy protection signal in a video signal wherein the video signal includes video lines having horizontal blanking intervals, comprising:

lowering the normal level of a portion or portions of the end of the video line and or of the horizontal blanking interval prior to the horizontal sync to cause an erroneous early scan of the video line;

adding a color burst of incorrect phase or frequency to the horizontal sync following the lowered portion or portions; and

causing a recorder or television set to sample or sense the lowered portion or portions to cause the sampling or sensing of the incorrect color burst in response to the erroneous early scan, thereby generating color distortion in the recorder or television set;

~~The method of claim 15~~ wherein the portion which is lowered in level comprises a portion of a front porch.

Claim 17 (Original). The method of claim 16 including:

adding a positive pulse to the front porch prior to the horizontal sync, wherein the lowered front porch portion and the positive pulse form a pseudo sync/automatic gain control (AGC) pulse pair.

Claim 18 (Previously amended). The method of claim 16 wherein the incorrect color burst also is added to a first portion of the back porch prior to a color burst.

Claim 19 (Cancelled without prejudice).

Claim 20 (Cancelled without prejudice).

Claim 21 (Cancelled without prejudice).

Claim 22 (Previously amended). A method of synthesizing at least a part of a copy protection signal in a video signal wherein the video signal includes video lines having horizontal blanking intervals with normal levels of front porch and back porch and a normal color burst area, comprising:

- lowering a portion or portions of the horizontal blanking interval prior to the horizontal sync to cause an erroneous early scan of selected video lines;
- adding a color burst of incorrect phase or frequency to the horizontal sync;
- lowering a portion or portions of the back porch following the normal color burst to define a pseudo horizontal sync to cause an erroneous late scan of selected video lines;
- adding a color burst of incorrect phase or frequency to the back porch following the pseudo horizontal sync;
- determining the average picture level of a field of the video lines;
- adjusting the lowered levels of the portion or portions of the horizontal blanking level and or of the pseudo horizontal sync in response to the average picture level; and
- thereby causing a recorder or television set to sample or sense the respective incorrect color burst in response to the erroneous early scan or the erroneous late scan depending upon the average picture level and the correspondingly adjusted lowered levels.

Claim 23 (Cancelled without prejudice).

Claim 24 (Re-presented-formerly dependent claim 24). Apparatus for synthesizing at least a part of a copy protection signal in a video signal during reproduction of an illegal copy,

wherein the video signal includes video lines having horizontal blanking intervals with normal levels of front porch and back porch and a normal color burst area, comprising:

circuitry for lowering the level of a selected portion or portions of the end of a video line and or of a horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder or television set to sample or sense the incorrect color burst, thereby generating color distortion in the recorder or television set; and

~~The apparatus of claim 23~~ wherein the circuitry include a first voltage source for lowering the normal level of a portion of the front porch to provide a modified front porch signal.

Claim 25 (Previously amended). The apparatus of claim 24 wherein the circuitry further include:

a second voltage source for providing a post pseudo sync signal of lowered level during an area of a back porch.

Claim 26 (Cancelled without prejudice).

Claim 27 (Re-presented-formerly dependent claim 27). Apparatus for synthesizing at least a part of a copy protection signal in a video signal during reproduction of an illegal copy,

wherein the video signal includes video lines having horizontal blanking intervals with normal levels of front porch and back porch and a normal color burst area, comprising:

circuitry for lowering the level of a selected portion or portions of the end of a video line and or of a horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder or television set to sample or sense the incorrect color burst, thereby generating color distortion in the recorder or television set;

including a gate logic circuit responsive to selected sync signals for also producing pre sync and or post sync color burst gate signals; and

~~The apparatus of claim 26~~ wherein the generator/combining circuits include;
an oscillator or generator for supplying signals of the incorrect phase or frequency; and
a combining circuit for combining with the video signal, selected signals of a modified front porch, the end of a video line, the post pseudo sync and/or the incorrect color burst in response to the pre sync and or post sync color burst gate signals, to cause the color distortion in the recorder or television set.

Claim 28 (Previously amended). The apparatus of claim 27 wherein the gate logic circuit include:

a pulse generating circuit for providing a sync related signal in response to the sync signals;

a first timing circuit responsive to the sync related signal for providing the pre sync color burst gate signal;

a second timing circuit responsive to the sync signals for providing the post sync color burst gate signal; and

wherein the combining circuit includes logic circuits responsive to the first and second timing circuits and the oscillator for providing pre sync color burst and post sync color burst signals of the incorrect phase or frequency as determined by the pre sync and post sync color burst gate signals, respectively.

Claim 29 (Previously amended). The apparatus of claim 28 wherein the first timing circuit includes the pulse generating circuit for providing the sync related signal, a third timing circuit and a pre sync gate circuit for providing the pre sync color burst gate signal.

Claim 30 (Previously amended). The apparatus of claim 28 wherein the second timing circuit includes a pair of one shots, and a post sync gate circuit for providing the post sync color burst gate signal.

Claim 31 (Original). The apparatus of claim 30 wherein the means for providing a post pseudo sync signal include:

a switch;
a second voltage source coupled to an input of the switch; and
the switch being responsive to the pair of one shots for providing the post pseudo sync signal following the normal color burst on the back porch.

Claim 32 (Re-presented-formerly dependent claim 32). Apparatus for synthesizing at least a part of a copy protection signal in a video signal during reproduction of an illegal copy, wherein the video signal includes video lines having horizontal blanking intervals with normal levels of front porch and back porch and a normal color burst area, comprising:

circuitry for lowering the level of a selected portion or portions of the end of a video line and or of a horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder or television set to sample or sense the incorrect color burst, thereby generating color distortion in the recorder or television set;

including a gate logic circuit responsive to selected sync signals for also producing pre sync and or post sync color burst gate signals; and

~~The apparatus of claim 26~~ wherein the combining circuit includes;
an AND gate receiving the pre sync and post sync color burst gate signals, the incorrect color burst signal and a line location signal;

a filter coupled to the AND gate; and

a summing circuit receiving the modified front porch signal, the signals from the filter and the post pseudo sync signal, for outputting the combined signals so as to cause the color distortion.

Claim 33 (Cancelled without prejudice).

Claim 34 (Currently amended). The apparatus of claim ~~33~~ 32 wherein the circuitry include:

a switch receiving the video signal at a first input;

a first voltage source for providing a lowered voltage level coupled to a second input of the switch;

a gate circuit for producing a pre sync color burst gate signal; and

said switch being responsive to the line location signal and the pre sync color burst gate signal to insert the lowered voltage level into the video signal during the front porch.

Claim 35 (Re-presented-formerly dependent claim 35). Apparatus for synthesizing at least a part of a copy protection signal in a video signal during reproduction of an illegal copy, wherein the video signal includes video lines having horizontal blanking intervals with normal levels of front porch and back porch and a normal color burst area, comprising:

circuitry for lowering the level of a selected portion or portions of the end of a video line and or of a horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder or television set to sample or sense the incorrect color burst, thereby generating color distortion in the recorder or television set; and

~~The apparatus of claim 23~~ further including;

a timing circuit for generating a horizontal blanking interval of expanded duration; and
wherein the gate logic circuit includes a timing circuit for inserting an incorrect color burst in a portion of the front porch prior to the horizontal sync.

Claim 36 (Re-presented-formerly dependent claim 36). Apparatus for synthesizing at least a part of a copy protection signal in a video signal during reproduction of an illegal copy, wherein the video signal includes video lines having horizontal blanking intervals with normal levels of front porch and back porch and a normal color burst area, comprising:

circuitry for lowering the level of a selected portion or portions of the end of a video line and or of a horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder or

television set to sample or sense the incorrect color burst, thereby generating color distortion in the recorder or television set; and

~~The apparatus of claim 23~~ wherein the circuitry for lowering the level further include;
a scene detector circuit receiving the video signal for determining the average picture level; and

transfer function circuits responsive to the determined average picture level for providing one or more voltages during the selected portion of the horizontal blanking interval, which voltages vary in level in accordance with the average picture level while providing the lowered level of the selected portion.

Claim 37 (Original). The apparatus of claim 36 wherein the scene detector circuit includes:

an AC coupling circuit receiving the video signal for generating an unmodified back porch; and

a sample/hold circuit for sampling the unmodified back porch to supply the average picture level to the transfer function circuits.

Claim 38 (Original). The apparatus of claim 36 wherein transfer function circuits include:

at least one amplifier having a first input receiving the determined average picture level;
and

an offset voltage source coupled to a second input of the respective amplifier, wherein the amplifier provides the lowered level for the selected portion or further portion in response to the determined average picture level.

Claim 39 (Cancelled without prejudice).

Claim 40 (Re-presented-formerly dependent claim 40). A method of modifying a video signal to provide a copy protection effect, the video signal including video lines having horizontal blanking intervals including horizontal sync, front porch and back porch areas of respective normal levels, and a normal color burst interval, comprising:

generating a color burst signal of incorrect phase or frequency; and

adding the generated incorrect color burst signal to the horizontal blanking interval before the horizontal sync and/or after the normal color burst interval;

~~The method of claim 39~~ wherein the incorrect color burst signal is added to a portion of the front porch area prior to the horizontal pulse.

Claim 41 (Cancelled without prejudice).

Claim 42 (Cancelled without prejudice).

Claim 43 (Cancelled without prejudice).

Claim 44 (Previously amended). A method of modifying a video signal to provide a copy protection or color distortion effect, the video signal including video lines having horizontal

blanking intervals including horizontal sync and or front porch and back porch areas,
comprising:

lowering the level of a selected portion of the end of a video line and or the front porch area prior to the horizontal sync to a value lower than the respective normal level to cause an erroneous early scan in a respective video line;

adding a color burst signal of incorrect phase or frequency to the horizontal sync and/or vicinity; and

causing a recorder or television set to sample or sense the incorrect color burst signal in response to the erroneous scan, to provide the copy protection or color distortion effect.

Claim 45 (Previously amended). The method of claim 44 including:

adding a positive pulse on the front porch area after the lowered portion and prior to the horizontal sync, wherein the lowered portion and the positive pulse form a pseudo sync/automatic gain control (AGC) pulse pair.

Claim 46 (Previously amended). The method of claim 44 including:

generating an average picture level (APL) signal indicative of the instant average picture level; and

varying the level of the lowered portion prior to the horizontal sync in response to the APL signal.

Claim 47 (Cancelled without prejudice).

Claim 48 (Cancelled without prejudice).

Claim 49 (Cancelled without prejudice).

Claim 50 (Re-presented-formerly dependent claim 50). A method of modifying a video signal to provide a copy protection effect, the video signal including video lines having horizontal blanking intervals including horizontal sync and or front porch and back porch areas, comprising:

lowering the level of a selected portion of the back porch area;

adding a color burst signal of incorrect phase or frequency to the back porch area in the vicinity of the lowered back porch portion;

providing an attenuation or darkening effect in the video signal which causes a recorder or television set to sense the lowered back porch portion thereby causing the recorder or television set to sample or sense the incorrect color burst signal in response to the lowered back porch portion, to provide the copy protection effect; and

~~The method of claim 47~~ further including;

generating an average picture level (APL) signal indicative of the instant average picture level; and

varying the level of the lowered back porch portion in response to the APL signal.

Claim 51 (Cancelled without prejudice).

Claim 52 (Re-presented-formerly dependent claim 52). A method of modifying a video signal to provide a copy protection effect, the video signal including video lines having

horizontal blanking intervals including horizontal sync and or front porch and back porch areas, comprising:

adding a basic copy protection signal to the video signal to cause an attenuation or darkening effect;

lowering the level of a selected portion or portions of the horizontal blanking interval and or the end of a video line to a value lower than said respective normal level;

inserting a color burst signal of incorrect phase or frequency in a second portion of the horizontal blanking interval;

wherein the second portion is spatially arranged in respect of the selected portion such that the attenuation or darkening effect causes the sensing of the lowered portion or portions to cause sampling or sensing the incorrect color burst signal to provide the copy protection effect;
and

~~The method of claim 51~~ wherein the incorrect color burst signal is added to the end of a video line, to a front porch area, to a horizontal sync signal and/or to a back porch area so as to cause the sampling of the incorrect color burst signal by a recorder or television set.

Claim 53 (Previously amended). The method of claim 52 wherein the incorrect color burst signal is added to a portion of the horizontal sync signal, and or the selected portion which is lowered in level is in a portion of the front porch area or in the end of a video line.

Claim 54 (Previously amended). The method of claim 52 wherein the incorrect color burst signal is added to the back porch area, and or the selected portion which is lowered in level is a

pseudo sync signal inserted in a portion of the back porch area prior to the incorrect color burst signal.

Claim 55 (Previously added). The method of claim 52 including:
expanding the duration of the horizontal blanking interval; and
inserting an incorrect color burst signal in a portion of the front porch area following the lowered level.

Claim 56 (Previously amended). The method of claim 52 wherein:
the incorrect color burst signal is added to the horizontal sync signal, and the selected portion which is lowered in level is a pseudo sync signal on a back porch area following the incorrect color burst signal and adjacent the beginning of the respective active video line.

Claim 57 (Previously added). The method of claim 52 including:
superimposing a positive pulse on the front porch area prior to the horizontal sync signal;
and
wherein the selected signal which is lowered in level is a portion of the front porch area.

Claim 58 (Cancelled without prejudice).

Claim 59 (Re-presented-formerly dependent claim 59). Apparatus for modifying a video signal to provide a copy protection effect during reproduction of an illegal copy, the video signal including video lines having horizontal blanking intervals, comprising:

circuitry for lowering the level of at least a selected portion of the horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion to cause a recorder or television set to sense the lowered level of the selected portion and to thereby sample the incorrect color burst, so as to provide the copy protection effect; and

The apparatus of claim 58 wherein the circuitry include a first voltage source for lowering the normal level of a portion or portions of the front porch to provide a modified front porch signal.

Claim 60 (Re-presented-formerly dependent claim 60). Apparatus for modifying a video signal to provide a copy protection effect during reproduction of an illegal copy, the video signal including video lines having horizontal blanking intervals, comprising:

circuitry for lowering the level of at least a selected portion of the horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion to cause a recorder or television set to sense the lowered level of the selected portion and to thereby sample the incorrect color burst, so as to provide the copy protection effect; and

The apparatus of claim 58 wherein the circuitry include a second voltage source for providing a post pseudo sync signal of lowered level during the back porch.

Claim 61 (Previously added). The apparatus of claim 60 wherein the second voltage source provides a post pseudo sync amplitude of about -10 to -30 IRE.

Claim 62 (Re-presented-formerly dependent claim 62). Apparatus for modifying a video signal to provide a copy protection effect during reproduction of an illegal copy, the video signal including video lines having horizontal blanking intervals, comprising:

circuitry for lowering the level of at least a selected portion of the horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion to cause a recorder or television set to sense the lowered level of the selected portion and to thereby sample the incorrect color burst rather than of the normal color burst, so as to provide the copy protection effect; and

~~The apparatus of claim 58~~ wherein the generator/combining circuits include;
a generator for supplying color burst signals of the incorrect phase or frequency; and
a combining circuit for combining with the video signal, selected signals of a modified front porch, the end of a video line, the post pseudo sync signal and or the color burst in response to the incorrect pre sync and post sync color burst gate signals, to provide the copy protection effect.

Claim 63 (Cancelled without prejudice).

Claim 64 (Re-presented-formerly dependent claim 64). Apparatus for modifying a video signal to provide a copy protection effect during reproduction of an illegal copy, the video signal including video lines having horizontal blanking intervals, comprising:

circuitry for lowering the level of at least a selected portion of the horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion to cause a recorder or television set to sense the lowered level of the selected portion and to thereby sample the incorrect color burst, so as to provide the copy protection effect; and

~~The apparatus of claim 58~~ wherein the circuitry for lowering the level further include;
a scene detector circuit receiving the video signal for determining the average picture level; and
transfer function circuits responsive to the determined average picture level for providing one or more voltages during the selected portion of the horizontal blanking interval, which voltages vary in level in accordance with the average picture level while providing the lowered level of the selected portion.

Claim 65 (Re-presented-formerly dependent claim 65). Apparatus for modifying a video signal to provide a copy protection effect during reproduction of an illegal copy, the video signal including video lines having horizontal blanking intervals, comprising:

circuitry for lowering the level of at least a selected portion of the horizontal blanking interval to below the normal level;

generator/combining circuits for supplying a color burst of incorrect phase or frequency in a further portion of the horizontal blanking interval;

wherein said further portion is positioned in respect of the selected portion to cause a recorder or television set to sense the lowered level of the selected portion and to thereby sample the incorrect color burst, so as to provide the copy protection effect; and

~~The apparatus of claim 58~~ including means for adding a positive pulse on a selected portion of the front porch area and prior to the horizontal sync.

Claim 66 (Re-presented-formerly dependent claim 66). A method of synthesizing at least part of a copy protection signal in a video signal wherein the video signal includes video lines having horizontal blanking intervals including horizontal sync, front porch and back porch areas of respective normal levels, and a normal color burst area, comprising:

lowering the level of a selected portion or portions of the end of a video line and or of the horizontal blanking interval to a value lower than said respective normal level of the selected portion or portions;

inserting a color burst signal of incorrect phase or frequency in a second portion of the horizontal blanking interval;

wherein the second portion is spatially arranged in respect of the selected portion or portions such that an attenuation and or darkening effect caused by a basic copy protection signal causes a recorder or television set to sense the lowered portion or portions to cause the recorder or television set to sample or sense the incorrect color burst signal thereby generating color distortion in the recorder or television set; and

~~The method of claim 1~~ including modifying the duration of a horizontal blanking interval and or the width of a horizontal sync signal.

Claim 67 (Re-presented-formerly dependent claim 67). A method of modifying a video signal to provide a copy protection or color distortion effect, the video signal including video lines having horizontal blanking intervals including horizontal sync and or front porch and back porch areas, comprising:

lowering the level of a selected portion of the end of a video line and or the front porch area prior to the horizontal sync to a value lower than the respective normal level to cause an erroneous early scan in a respective video line;

adding a color burst signal of incorrect phase or frequency to the horizontal sync and/or vicinity;

causing a recorder or television set to sample or sense the incorrect color burst signal in response to the erroneous scan, to provide the copy protection or color distortion effect; and

~~The method of claim 44~~ further including;

adding a basic copy protection signal to the video signal to cause an attenuation or darkening effect; and

wherein the attenuation or darkening effect causes the recorder or television set to sense the lowered portion or portions thereby causing the sampling or sensing of the incorrect color burst.

Claim 68 (Cancelled without prejudice).

Claim 69 (Cancelled without prejudice).

Claim 70 (Cancelled without prejudice).

Claim 71 (Cancelled without prejudice).

Claim 72 (Cancelled without prejudice).

Claim 73 (Cancelled without prejudice).

Claim 74 (Cancelled without prejudice).

Claim 75 (Cancelled without prejudice).

Claim 76 (Cancelled without prejudice).

Claim 77 (Cancelled without prejudice).

Claim 78 (Cancelled without prejudice).

Claim 79 (Cancelled without prejudice).

Claim 80 (Cancelled without prejudice).

Claim 81 (Cancelled without prejudice).

Claim 82 (Cancelled without prejudice).

Claim 83 (Cancelled without prejudice).

Claim 84 (Cancelled without prejudice).

Claim 85 (Cancelled without prejudice).